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[US/US]; 114 South Street, Pepperell, MA 01463 (US).
CARLSON, Mark, A. [US/US]; 20 Cricket Hill Road,
Amherst, NH 03031 (US).

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(74) **Agent: LONG, Daniel, J.**; BAE Systems Information and
Electronic Systems Int, egration Inc., 65 Spit Brook Road,
NHQ01-719, Nashua, NH 03061 (US).

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(71) **Applicant (for all designated States except US):** BAE
SYSTEMS INFORMATION AND ELECTRONIC
SYSTEMS INTEGRATION, INC. [US/US]; 65 Spit
Brook Road, NHQ01-719, Nashua, NH 03061 (US).

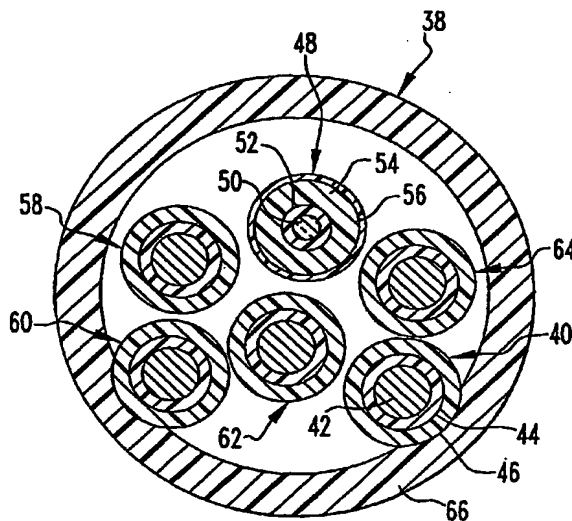
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(72) Inventors; and

(75) Inventors/Applicants (for US only): **DION, John**

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(54) **Title:** ELECTRO-OPTICAL CABLE FOR USE IN TRANSMISSION OF HIGH VOLTAGE AND OPTICAL SIGNALS UNDER EXTREMES OF TEMPERATURE



(57) **Abstract:** An electro-optical cable (38) which includes an optical element (48) having an elongated glass fiber core (50), a medial cushioning layer (54) concentrically surrounding the glass fiber core, and an outer hard shell (56) material surrounding the medial cushioning layer. The cable also includes at least one electrically conductive element (40) comprising an elongated conductive core (42) and a dielectric layer (44) concentrically surrounding the electrically conductive element.

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